

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,384,438 B1
APPLICATION NO. : 09/618876
DATED : June 10, 2008
INVENTOR(S) : Anatoly Z. Rosenflanz

Page 1 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1

Line 1, delete "AL₂O₃-Y₂O₃-ZRO₂" and insert -- Al₂O₃-Y₂O₃-ZrO₂ --, therefor.
Line 41, delete "al.)))(also" and insert -- al.)) (also --, therefor.

Column 2

Line 9, delete "(Larmnie)," and insert -- (Larmie), --, therefor.
Line 10, delete "(Larmnie)," and insert -- (Larmie), --, therefor.
Line 44, delete "stones)." and insert -- stones. --, therefor.
Line 55, delete "4,898,587." and insert -- 4,898,587 --, therefor.

Column 3

Line 13, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 15, delete "Al₂O₃.Y₂O₃)," and insert -- Al₂O₃.Y₂O₃), --, therefor.
Line 16, delete "Al₂O₃.Y₂O₃." and insert -- Al₂O₃.Y₂O₃. --, therefor.
Line 18, delete "Al₂O₃.Y₂O₃." and insert -- Al₂O₃.Y₂O₃. --, therefor.
Line 20, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 21, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 28, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 34, delete "Al₂O₃.Y₂O₃" arid insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 51, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 56, delete "Al₂O₃.Y₂O₃"" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 58, delete "Y₃Al₅O₁₂" and insert -- Y₃Al₅O₁₂" --, therefor.
Line 59, delete "Al₂O₃.rare" and insert -- Al₂O₃.rare --, therefor.
Line 62, delete "Dy₃Al₅O₁₂" and insert -- Dy₃Al₅O₁₂ --, therefor.
Line 64, delete "Dy₂O₃," and insert -- Dy₂O₃, --, therefor.
Line 64, delete "H₂O₃," and insert -- HO₂O₃, --, therefor.

Column 5

Line 45, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 46, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 49, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 50, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 52, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 53, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 56, before "oxide" delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 56, after "complex" delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 58, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 59, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 65, delete "Al₂O₃.metal" and insert -- -Al₂O₃.metal --, therefor.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6

Line 1, before "oxide" delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 1, after "complex" delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 4, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 5, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 7, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 9, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 11, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 13, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 15, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 17, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 44, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 47, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 50, delete "Al₂O₃.Y₂O₃." and insert -- Al₂O₃.Y₂O₃. -- , therefor.

Column 7

Line 7, before "oxide" delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.
Line 7, after "complex" delete "Y₂O₃.metal" and insert -- Y₂O₃.metal --, therefor.

Column 8

Line 17, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 18, after "ZrO₂" insert -- phase, the --.
Line 19, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 22, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 58, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.

Column 9

Line 2, delete "Y₂O₃.metal" and insert -- Y₂O₃.metal --, therefor.
Line 10, delete "haffnia." and insert -- hafnia. --, therefor.
Line 63, delete "other.than" and insert -- other than --, therefor.

Column 10

Line 45, before "No. 3,891,408" delete "Pat," and insert -- Pat. --, therefor.
Line 45, after "U.S." delete "Pat," and insert -- Pat. --, therefor.
Line 46, before "No. 4,070,796" delete "Pat," and insert -- Pat. --, therefor.
Line 46, after "U.S." delete "Pat," and insert -- Pat. --, therefor.
Line 47, after "U.S." delete "Pat," and insert -- Pat. --, therefor.
Line 48, before "No. 4,457,767" delete "Pat," and insert -- Pat. --, therefor.
Line 48, after "U.S." delete "Pat," and insert -- Pat. --, therefor.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 53, after "include" delete "are" and insert -- arc --, therefor.

Line 53, after "furnace," delete "are" and insert -- arc --, therefor.

Line 54, delete "are" and insert -- arc --, therefor.

Line 56, delete "are," and insert -- arc", --, therefor.

Column 11

Line 54, delete "are" and insert -- arc --, therefor.

Column 12

Line 39, delete "Pat," and insert -- Pat. --, therefor.

Line 40, delete "Pat," and insert -- Pat. --, therefor.

Line 41, before "No. 4,194,887" delete "Pat," and insert -- Pat. --, therefor.

Line 41, after "(Ueltz et al.), U.S." delete "Pat," and insert -- Pat. --, therefor.

Line 42, delete "Pat," and insert -- Pat. --, therefor.

Line 43, delete "Pat," and insert -- Pat. --, therefor.

Column 14

Line 3, delete "JIs220," and insert -- JIS220, --, therefor.

Column 17

Line 48, delete "lonta" and insert -- Ionta --, therefor.

Line 57, delete "c," and insert -- α, β --, therefor.

Column 18

Line 33, delete "1 100°" and insert -- 1100° --, therefor.

Column 19

Line 12, delete "tetrachloronaphthalene," and insert -- tetrachloronaphthalene, --, therefor.

Line 16, delete "tetrafluoraboate," and insert -- tetrafluoraborate, --, therefor.

Line 67, delete "(Larmnie)," and insert -- (Larmie), --, therefor.

Column 20

Line 37, delete "example,." and insert -- example, --, therefor.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22

Line 22, delete "are" and insert -- arc --, therefor.
Line 28, delete "are" and insert -- arc --, therefor.
Line 29, delete "are" and insert -- arc --, therefor.
Line 33, delete "are" and insert -- arc --, therefor.
Line 47, delete "EL" and insert -- IL --, therefor.

Column 24

Line 49, delete "vol" and insert -- vol. --, therefor.

Column 27

Line 24, delete "1 micrometer." and insert -- 2 micrometers. --, therefor.
Line 60, delete "Was" and insert -- was --, therefor.

Column 31

Line 51, delete "icolones" and insert -- colonies --, therefor.
Line 56, delete "ac-" and insert -- a- --, therefor.

Column 32

Line 28, in Claim 1, delete "Al₂O₃.Y₂O₃." and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 29, in Claim 1, delete "Al₂O₃.Y₂O₃." and insert -- Al₂O₃.Y₂O₃. --, therefor.
Line 30, in Claim 2, after "1" insert -- wherein --.
Line 58, in Claim 9, delete "Al₂O₃.rare" and insert -- Al₂O₃.rare --, therefor.
Line 63, in Claim 10, delete "Al₂O₃.metal" and insert -- Al₂O₃.metal --, therefor.

Column 33

Line 2, in Claim 12, delete "ar" and insert -- at --, therefor.
Line 3, in Claim 12, delete "Al₂O₃.Y₂O₃or" and insert -- Al₂O₃.Y₂O₃ or --, therefor.
Line 4, in Claim 12, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 17, in Claim 13, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 18, in Claim 13, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 27, in Claim 13, delete "Al₂O₃. Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 28, in Claim 13, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 37, in Claim 14, delete "cutectic" and insert -- eutectic --, therefor.
Line 40, in Claim 14, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 41, in Claim 14, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 51, in Claim 14, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 52, in Claim 14, delete "Al₂O₃.Y₂O₃" and insert -- Al₂O₃.Y₂O₃ --, therefor.
Line 65, in Claim 15, delete "Al₂O₃.Y₂O₃," and insert -- Al₂O₃.Y₂O₃, --, therefor.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 66, in Claim 15, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 67, in Claim 15, after “fused” insert -- , --.

Column 34

Line 8, in Claim 15, delete “Al₂O₃.Y₂O₃” and insert -- Al₂O₃·Y₂O₃ --, therefor.
Line 9, in Claim 15, delete “Al₂O₃.Y₂O₃” and insert -- Al₂O₃·Y₂O₃ --, therefor.
Line 18, in Claim 17, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 36, in Claim 21 .delete “Al₂O₃.metal” and insert -- Al₂O₃·metal --, therefor.
Line 43, in Claim 23, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 44, in Claim 23, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 62, in Claim 27, delete “Al₂O₃.metal” and insert -- Al₂O₃·metal --, therefor.

Column 35

Line 8, in Claim 29, delete “Al₂O₃.Y₂O₃” and insert -- Al₂O₃·Y₂O₃ --, therefor.
Line 25, in Claim 33, after “comprise” delete “comprises”.
Line 28, in Claim 33, delete “Al₂O₃metal” and insert -- Al₂O₃·metal --, therefor.
Line 42, in Claim 37, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 43, in Claim 37, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 67, in Claim 41, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.

Column 36

Line 3, in Claim 42, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 4, in Claim 42, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 9, in Claim 43, delete “Al₂O₃.Y₂O₃” and insert -- Al₂O₃·Y₂O₃ --, therefor.
Line 31, in Claim 44, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 32, in Claim 44, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 43, in Claim 48, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 46, in Claim 49, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 47, in Claim 49, delete “Al₂O₃.Y₂O₃”and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 53, in Claim 50, delete “Al₂O₃.Y₂O₃” and insert -- Al₂O₃·Y₂O₃ --, therefor.

Column 37

Line 1, in Claim 52, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 2, in Claim 52, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 14, in Claim 56, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 17, in Claim 57, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 18, in Claim 57, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃·Y₂O₃, --, therefor.
Line 26, in Claim 58, delete “Al₂O₃.Y₂O₃” and insert -- Al₂O₃·Y₂O₃ --, therefor.
Line 37, in Claim 60, delete “reselective” and insert -- respective --, therefor.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 41, in Claim 60, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 42, in Claim 60, delete “Al₂O₃.Y₂O₃;” and insert – Al₂O₃.Y₂O₃; --, therefor.
Line 45, in Claim 60, delete “fired” and insert -- fused --, therefor.
Line 51, in Claim 61, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃.Y₂O₃. --, therefor.
Line 54, in Claim 62, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 55, in Claim 62, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃.Y₂O₃. --, therefor.
Line 64, in Claim 63, delete “eutectic” and insert -- eutectic --, therefor.
Line 65, in Claim 63, delete “Al₂O₃.Y₂O₃” and insert -- Al₂O₃.Y₂O₃ --, therefor.

Column 38

Line 6, in Claim 64, before “is eutectic” insert -- further comprises
crystalline Al₂O₃ such that said eutectic --.
Line 7, in Claim 64, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃.Y₂O₃. --, therefor.
Line 10, in Claim 65, delete “Al₂O₃.Y₂O₃,” and insert -- Al₂O₃.Y₂O₃, --, therefor.
Line 11, in Claim 65, delete “Al₂O₃.Y₂O₃.” and insert -- Al₂O₃.Y₂O₃. --, therefor.
Line 28, in Claim 68, delete “JS8000,” and insert -- JIS8000, --, therefor.
Line 43, in Claim 71, delete “JIS100,” and insert -- JIS1000, --, therefor.
Line 64, in Claim 80, delete “steel,tool steel,” and insert -- steel tool, steel, --, therefor.

Signed and Sealed this

Seventeenth Day of March, 2009



JOHN DOLL
Acting Director of the United States Patent and Trademark Office